

NLM Indexing Initiative (II) Research and Development Plan -- Timeline Chart

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Prototype Technical Development												
1.1: Extend the II Prototype to a realtime interactive system												
1.2: Add batch processing to the realtime II Prototype												
1.3: Ongoing maintenance & enhancements												
2. Basic Research & Development												
2.1 MetaMap Indexing (MMI)												
2.1.1: Incorporate MetaMap's new tokenization regime												
2.1.2: Update MetaMap's data files to the 2000 UMLS KSs												
2.1.3: Apply the results of WSD research to MetaMap												
2.2 Semantic Proximity												
2.2.1: Update the Restrict to MeSH algorithm for 2000 data												
2.2.2: Check the consequences of the 2000 update												
2.2.3: Improve the Restrict to MeSH algorithm												
2.2.4: Develop an alternate Restrict to MeSH algorithm												
2.3 JD Indexing												
2.3.1: Basic JD Indexing Research												
2.3.2: Study the Effect of JD Indexing on MEDLINE Retrieval												
2.3.3: Build a Web Interface for JD Indexing												

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2.4 PubMed Related Citations												
2.4.1: Basic PubMed Related Documents Research												
2.4.2: Machine Learning Research					Relies on 2.4.1							
2.5 Word Sense Disambiguation (WSD)												
2.5.1: Apply JD Indexing to WSD												
2.5.2: Explore Memory-Based Learning Approaches to WSD												
2.5.3: Create web-based interface for evaluating ambiguities												
2.5.4: Process WSD test set data files through SKR												
2.5.5: Create WSD Test Collection					Relies on 2.5.3 & 2.5.4							
3. Evaluation												
3.1 Data Acquisition												
3.1.1: Construct MED97-99 set of MEDLINE citations		Completed										
3.2 IR Evaluation												
3.2.1: Evaluation of MeSH term assignment by auto methods												
3.3 User-Centered Evaluation												
3.3.1: Develop a plan for user-centered evaluation												
3.3.2: Develop a semi-auto indexing system for conducting eval								Relies on 3.3.1				

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4. Prototype Enhancements												
4.1 Full Text Processing												
4.1.1: Perform initial explorations of indexing full articles												
4.1.2: Modify II systems to account for full text processing									Relies on 4.1.1 completion			